



Office Action Summary

Application No.

10/601,918

Applicant(s)

MIKHAILOVSKII ET AL.

Examiner

Thomas M. Lithgow

Art Unit

1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 August 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 5-12 is/are pending in the application.
- 4a) Of the above claim(s) 2,3 and 9-12 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 5-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____



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DETAILED ACTION

Election/Restrictions

1. Applicant's election of method claims 1 and 5-8 (4 being canceled by amendment) in the reply filed on 21 August 2006 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. This application contains claims 2-3 and 9-12 drawn to an invention nonelected with traverse in Paper No. 21 Aug 2006. A complete reply to the previous restriction must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

3. Applicant questioned the status of FINAL in the original restriction requirement. A review of the restriction does not indicate any mention of FINAL. Specifically, the FINAL box (2a) on the Office Action Summary (PTO-326) is not checked (indicating it is not FINAL) and no mention of FINAL is located in the rest of the Office action. The restriction action dated 19 June 2006 was non-FINAL as is this instant action.

4. As a courtesy to applicant, it should be noted that in future amendments, the use of double brackets to delete text of 5 characters or

fewer is shown for example as [[text]] and not ((text)). Further, the text of a deleted claim should not be shown. ✓

Claim Rejections - 35 USC § 112

5. The claims 1 and 5-8 are generally narrative and indefinite, failing to conform to current U.S. practice. They appear to be replete with grammatical and idiomatic errors. In claim 1, the letters i. and j. appear to be reversed. ✓

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1 and 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Canada 2302110. Canada '110 discloses the purification of water by employing the formation of gas bubbles in the liquid, adhering the

contaminants in the liquid to the bubbles, and decaying of the gas bubbles (Pg. 3, last paragraph). The contaminants once concentrated may be removed (pg. 3, 2nd paragraph) or channeled toward the bank where the contaminants would accumulate at the bottom (back into the water). Further, once removed the precipitated aggregates may be allowed to concentrate at the bottom of a channel.

8. Claims 1, 5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by either one of Grobler (US 4176058) or Smyrnov (US 3884810). Either of the above two patents disclose the addition of bubbles to a contaminated flowing water system in which the bubbles attach to the contaminants and float to the surface where the bubbles are accumulated and removed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Lithgow whose telephone number is 571-272-1162. The examiner can normally be reached on Mon. -Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Thomas M. Lithgow
Primary Examiner
Art Unit 1724

TML

Notice of References Cited

Application/Control No.

10/601,918

Applicant(s)/Patent Under
Reexamination
MIKHAILOVSKII ET AL.

Examiner

Thomas M. Lithgow

Art Unit

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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-3,884,810	05-1975	Smyrnov, Wassily	210/170.1
*	B	US-4,176,058	11-1979	Grobler, Jacobus J.	210/632
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	2302110	09-2001	CA	---	---
	O	2277540	01-2001	CA	---	---
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

*		
	U	
	V	
	W	
	X	

BEST AVAILABLE COPY

* A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.